Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Withdrawn) Solid ion conductor, characterized in that it has a gamet-like crystal structure and that it has a higher ion conductivity than 3.4x10⁻⁶ S/cm.
- (Withdrawn) Solid ion conductor, characterized in that it has a gamet-like
 crystal structure and that it has a stoichiometric composition which is formally
 derived by aliovalent substitution of Li₈La₈M₂O₁₂ in which M is Nb or Ta.
- 3. (Currently Amended) [[Solid]] A solid ion conductor, characterized in that it has a garnet-like crystal structure and that it has a stoichiometric composition $L_{5+x}AyG_zM_zO_{12}$, wherein

L is in each case independently an arbitrary preferably monovalent cation, A is in each case independently a monovalent, divalent, trivalent or tetravalent cation, G is in each case independently a monovalent, divalent, trivalent or tetravalent cation M is in each case independently a trivalent, tetravalent or pentavalent cation, $0 < x \le 2$, $0 \le y \le 3$, $0 \le z \le 3$ and wherein O can be partially or completely replaced by divalent and/or trivalent anions

4. (Withdrawn) Solid ion conductor as claimed in claim 1, wherein the stoichiometric composition is

such as e.g. N³-, and wherein at least one of A and G is a divalent cation.

and wherein

0 < x ≤ 1.

L is a monovalent alkali metal cation,

A is a divalent metal cation.

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G is a trivalent cation and M is a pentavalent cation.

- (Previously Presented) Solid ion conductor as claimed in claim 3, wherein L
 is selected from Li, Na and K can in each case be the same or different.
- 6. (Original) Solid ion conductor as claimed in claim 5, wherein L is Li.
- 7. (Currently Amended) Selid-ion-conductor, as claimed in claim-3 A solid ion conductor, characterized in that it has a garnet-like crystal structure and that it has a stoichiometric composition L_{5+x}AvG₂M₂O₁₂, wherein L is in each case independently an arbitrary preferably monovalent cation.
 A is in each case independently a monovalent, divalent, trivalent or tetravalent cation, G is in each case independently a monovalent, divalent, trivalent or tetravalent cation M is in each case independently a trivalent, tetravalent or pentavalent cation, 0 < x ≤ 2, 0 ≤ y ≤ 3, 0 ≤ z ≤ 3 and wherein O can be partially or completely replaced by divalent and/or trivalent anions such as e.g. N³, wherein A is selected from divalent cations preferably alkaline earth metal lons.</p>
- (Previously Presented) Solid ion conductor as claimed in claim 3, wherein M is selected from transition metal ions.
- 9. (Currently Amended) Selid The solid ion conductor as elaimed in of claim
 [[3]] Z, wherein A is selected from Ca, Sr and/or Ba and wherein M is selected from Nb and Ta
- 10. (Currently Amended) Selid The solid ion conductor as claimed in of claim [[8]] 7, wherein A is selected from Sr and Ba and wherein M is Ta.

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11. (Previously Presented) Solid ion conductor as claimed in claim 3, characterized in that it is stable towards elemental lithium at lithium activities corresponding to a voltage of 5 V.

- 12. (Withdrawn) Process for producing a solid ion conductor as claimed in claim 1, characterized in that salts and/or oxides of L, A, G and M are reacted together.
- 13. (Withdrawn) Process as claimed in claim 12, characterized in that the reaction takes place in a solid phase reaction.
- (Withdrawn) Process as claimed in claim 12 for the production of a solid ion conductor wherein the stoichiometric composition is

and wherein

0 < x < 1.

L is a monovalent alkali metal cation,

A is a divalent metal cation,

G is a trivalent cation and

M is a pentavalent cation.

characterized in that L and A are used in the form of nitrates, carbonates or hydroxides and are reacted with G₂O₃ and M₂O₅.

- 15. (Withdrawn) Process as claimed in claim 12, which comprises the following steps:
- mixing the starting materials and ball-milling, preferably using zirconium oxide balls in 2-propanol,
- (b) heating the mixture from (a) in air for 2-10 h to 400-1000°C;
- (c) ball-milling, preferably using zirconium balls in 2-propanol;
- (d) pressing the mixture with isostatic pressure into pellets; and
- (e) sintering the pellets covered with a powder of the same composition for 10-

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50 h at 700-1200°C

16. (Withdrawn) Process as claimed in claim 15, wherein in step (b) the mixture is heated for 6 h to 700°C; and in step (e) the pellets are sintered for 24 h at 900°C.

- 17. (Withdrawn) Use of a solid ion conductor as claimed in claim 1 in batteries, accumulators, supercaps, fuel cells, sensors and/or electrochromic devices such as windows, screens and facades.
- 18. (Withdrawn) Use as claimed in claim 17, wherein the solid ion conductor is used in the form of pellets, as a thin layer, in a crystalline or amorphous foil.
- 19. (New) A solid ion conductor that has a garnet-like crystal structure and a stoichiometric composition $L_{5**}AyG_zM_zO_{12}$, wherein L is in each case independently an arbitrary preferably monovalent cation, A is in each case independently a monovalent, divalent, trivalent or tetravalent cation, G is in each case independently a monovalent, divalent, trivalent or tetravalent cation M is in each case independently a trivalent, tetravalent or pentavalent cation, $1 \le x \le 2$, $0 \le y \le 3$, $0 \le z \le 3$ and wherein O can be partially or completely replaced by divalent and/or trivalent anions such as e.g. N^3 .
- 20. (New) A process for producing a solid ion carrier that has a garnet-like crystal structure and that has a stoichiometric composition $L_{5+x}AyG_zM_2O_{12}$, wherein L is in each case independently an arbitrary preferably monovalent cation, A is in each case independently a monovalent, divalent, trivalent or tetravalent cation, G is in each case independently a monovalent, divalent, trivalent or tetravalent cation M is in each case independently a trivalent, tetravalent or pentavalent cation, $0 < x \le 2$, $0 \le y \le 3$, $0 \le z \le 3$ and wherein O can be partially or completely replaced

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by divalent and/or trivalent anions such as e.g. N³, and wherein at least one of A and G is a divalent cation, comprising the steps of

- (a) reacting salts and/or oxides of L, A, G, and M by mixing to form a reaction mixture;
- (b) ball-milling, preferably using zirconium oxide balls in 2-propanol;
- (c) heating the mixture from (a) in air for 2-10 hours to 400-1000°C;
- (d) ball-milling, preferably using zirconium balls in 2-propanol;
- (e) pressing the mixture with isostatic pressure into pellets; and
- (f) sintering the pellets covered with a powder of the same composition for 10-50 hours at 700-1200°C.
- 21. (New) A process for producing a solid ion carrier that has a garnet-like crystal structure and that has a stoichiometric composition $L_{5+x}AyG_zM_2O_{12}$, wherein L is in each case independently an arbitrary preferably monovalent cation, A is in each case independently a monovalent, divalent, trivalent or tetravalent cation, G is in each case independently a monovalent, divalent, trivalent or tetravalent cation M is in each case independently a trivalent, tetravalent or pentavalent cation, $0 < x \le 2$, $0 \le y \le 3$, $0 \le z \le 3$ and wherein O can be partially or completely replaced by divalent and/or trivalent anions such as e.g. N^{3-} , and wherein A is selected from divalent cations preferably alkaline earth metal ions, comprising the steps of
 - (a) reacting salts and/or oxides of L, A, G, and M by mixing to form a reaction mixture:
 - (b) ball-milling, preferably using zirconium oxide balls in 2-propanol;
 - (c) heating the mixture from (a) in air for 2-10 hours to 400-1000°C;
 - (d) ball-milling, preferably using zirconium balls in 2-propanol;
 - (e) pressing the mixture with isostatic pressure into pellets; and
 - (f) sintering the pellets covered with a powder of the same composition for 10-50 hours at 700-1200°C.